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June 14, 2005

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Examiner: SCHWADRON, Ronal B.

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Art Unit 1644

Mail Stop Amendment

Confirmation No.: 6431

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 10/031,345; § 371 Date: July 22, 2002

Inducing Cellular Immune Responses to Hepatitis C Virus Using Peptide and Nucleic Acid Compositions

Inventors:

SETTE et al.

Our Ref:

2060.0030006/PAJ/M-M

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Second Supplemental Information Disclosure Statement;
- 2. List of Documents cited on Form PTO-1449 (27 Pages);
- 3. Copy of eighty-nine (89) documents cited on Form PTO-1449 (Doc. Nos. AL100-AP100, AR100-AT100, AL101-AP101, AR101-AT101, AR102-AT102, AR103-AT103, AR104-AT104, AR105-AT105, AR106-AT106, AR107-AT107, AR108-AT108, AR109-AT109, AR110-AT110, AR111-AT111, AR112-AT112. AR113-AT113, AR114-AT114, AR115-AT115, AR116-AT116, AR117-AT117, AR118-AT118, AR119-AT119, AR120-AT120, AR121-AT121, AR122-AT122, AR123-AT123, AR124-AT124, AR125-AT125, and AR126);
- 4. Third Supplemental Information Disclosure Statement;
- 5. List of Documents cited on Form PTO-1449 (4 Pages);
- 6. Copy of sixteen (16) documents cited on Form PTO-1449 (Doc. Nos. AL200-AP200, AR200-AT200, AR201-AT201, AR202-AT202, and AR203-AS203); and
- 7. One (1) return postcard.

Commissioner for Patents June 14, 2005 Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Peter A. Jackman

Attorney for Applicants

Registration No. 45,986

PAJ/M-M/awt Enclosures

408258 1.DOC



In re application of:

Sette et al.

Appl. No.: 10/031,345 (U.S. Nat'l Phase of

PCT/US00/19774)

§ 371 Date: July 22, 2002

Inducing Cellular Immune Responses to Hepatitis C Virus

Using Peptide and Nucleic Acid

Compositions

Confirmation No.: 6431

Art Unit:

1644

Examiner:

SCHWADRON, Ronald B.

Atty. Docket: 2060.0030006/PAJ/M-M

Second Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all U.S. Patents and U.S. Patent Application Publications, cited on Form PTO-1449 as documents AA100-AK100 and AA101-AI101, are not provided in accordance with 37 C.F.R. § 1.98(a)(2).

A copy of document AR126 is not provided in accordance with the U.S. Patent and Trademark Office OG notice of October 19, 2004, which states: "the requirement in 37 C.F.R. § 1.98(a)(2)(iii) for a legible copy of the specification, including the claims, and drawings of each cited pending U.S. patent application (or portion of the application which caused it to be listed) is sua sponte waived where the cited pending application is stored in the USPTO's IFW system."

A copy of each other document is provided.

The Examiner's attention is directed to the following co-pending U.S. Patent Application, which is directed to related technical subject matter:

U.S. Patent Application No. 10/817,970, Grey et al., filed April 6, 2004 and cited as document AR126.

The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Peter A. Jackman

Attorney for Applicants

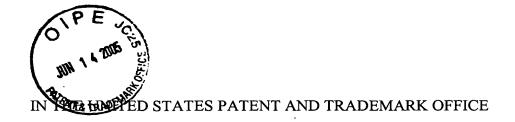
Registration No. 45,986

Date: June 14, 2005

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

(202) 371-2600

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In re application of:

Sette et al.

Appl. No.: 10/031,345 (U.S. Nat'l Phase of

PCT/US00/19774)

§ 371 Date: July 22, 2002

For: Inducing Cellular Immune

Responses to Hepatitis C Virus Using Peptide and Nucleic Acid

Compositions

Confirmation No.: 6431

Art Unit: 1644

Examiner: SCH

SCHWADRON, Ronald B.

Atty. Docket: 2060.0030006/PAJ/M-M

Third Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all U.S. Patents, cited on Form PTO-1449 as documents **AA200** and **AB200**, are not provided in accordance with 37 C.F.R. § 1.98(a)(2).

A copy of each other document is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Sette *et al*. Appl. No. 10/031,345

Applicants reserve the right to establish the patentability of the claimed invention over

any of the information provided herewith, and/or to prove that this information may not be prior

art, and/or to prove that this information may not be enabling for the teachings purportedly

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or that information more material to the examination of the present patent application does not

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Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Peter A. Jackman

Attorney for Applicants

Registration No. 45,986

Date: June 14, 2005

1100 New York Avenue, N.W.

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(202) 371-2600

407464_1.DOC

Page 1 of 4 ATTY. DOCKET NO. APPLICATION No. 10/031,345 2060.0030006/PAJ/M-M (U.S. Nat'l Phase of PCT/US00/19774) FORM PTO-1449 APPLICANTS Sette et al. THIRD SUPPLEMENTA § 371 DATE ART UNIT INFORMATION DISCLOSURE July 22, 2002 1644 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE INITIAL AA200 5,980,899 11/09/1999 Berzofsky et al. 06/10/1992 05/18/1995 AB200 6,150,087 11/21/2000 Chien ACAD ΑE AF AG ΑH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE COUNTRY TRANSLATION CLASS SUB-CLASS INITIAL Yes AL200 EP 0 318 216 B1 05/31/1989 Europe No Yes AM200 WO 95/22317 08/24/1995 **WIPO** No Yes WO 95/25122 09/21/1995 **WIPO** AN200 No Yes WO 97/34621 09/25/1997 **WIPO** AO200 No Yes AP200 WO 98/32456 07/30/1998 **WIPO** No OTHER (Including Author Title Date Pertinent Pages etc.)

1	OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	200	Cerny, A., et al., "Induction in vitro of a primary human antiviral cytotoxic T cell response," Eur. J. Immunol. 25:627-630, VCH Verlagsgesellschaft (1995)					
	AS	200	Chang, K-M., et al., "Identification of HLA-A3 and -B7-Restricted CTL Response to Hepatitis C Virus in Patients with Acute and Chronic Hepatitis C," J. Immunol. 162:1156-1164, American Association of Immunologists (January 1999)					
	АТ	200	Kita, H., et al., "HLA B44-Restricted CTL Response to HCV Nucleocapsid Protein Derived Peptides from Different HCV Isolates," Hepatology AASLD Abstract No. 631:214A, Williams & Wilkins (1993)					
EXAMINER	•	<u> </u>	DATE CONSIDERED					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AR	201	Koziel, M.J., et	<i>al.</i> , "Hepati Core and Er	or, Title, Date, Pertinent Parties C Virus (HCV)-Specific related proteins of HCV, 1993)	ic Cytotoxic				
	AS	201	CD4 ⁺ T Cells: I	Lamonaca, V., et al., "Conserved Hepatitis C Virus Sequences are HED4 ⁺ T Cells: Implications for Vaccine Development," Hepatology & Wilkins (October 1999)						
	АТ	201			f lipidated HTL-CTL conses," Vaccine 16:823-833, I					
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ATTY. DOCKET NO. APPLICATION NO. 10/031,345 2060.0030006/PAJ/M-M (U.S. Nat'l Phase of PCT/US00/19774) FORM PTO-1449 APPLICANTS Sette et al. THIRD SUPPLEMENTAL § 371 DATE ART UNIT INFORMATION DISCLOSURE STATEMENT July 22, 2002 1644 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AAAΒ AC AD ΑE AF AG AH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER DATE COUNTRY SUB-CLASS INITIAL CLASS **TRANSLATION** Yes AL No Yes AMNo Yes AN No Yes AO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Rammensee, H-G., et al., "MHC ligands and peptide motifs: first listing," Immunogen. AR 202 41:178-228, Springer-Verlag (1995) Sarobe, P., et al., "Enhanced In Vitro Potency and In Vivo Immunogenicity of a CTL Epitope from Hepatitis C Virus Core Protein following Amino Acid Replacement at 202 AS Secondary HLA-A2.1 Binding Positions," J. Clin. Invest. 102:1239-1248, American Society for Clinical Investigation (September 1998) Schulz, M., et al., "Peptide-induced antiviral protection by cytotoxic T cells," Proc. Natl. ΑT <u>202</u> Acad. Sci. USA 88:991-993, National Academy of Sciences (1991) **EXAMINER** DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to Applicant.

Page 3 of 4

ATTY. DOCKET NO. APPLICATION NO. 10/031,345 2060.0030006/PAJ/M-M (U.S. Nat'l Phase of PCT/US00/19774) FORM PTO-1449 APPLICANTS Sette et al. THIRD SUPPLEMENTAL § 371 DATE ART UNIT INFORMATION DISCLOSURE STATEMENT July 22, 2002 1644 **U.S. PATENT DOCUMENTS** EXAMINER INITIAL DOCUMENT NUMBER DATE CLASS SUB-CLASS NAME FILING DATE AA AB AC AD ΑE AF AG ΑH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS **TRANSLATION** INITIAL Yes ΑL No Yes AMNo Yes AN No Yes AO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Shirai, M., et al., "Use of Intrinsic and Extrinsic Helper Epitopes for In Vivo Induction of 203 Anti-Hepatitis C Virus Cytotoxic T Lymphocytes (CTL) with CTL Epitope Peptide AR Vaccines," J. Infect. Dis. 173:24-31, University of Chicago Press (1996) Wentworth, P.A., et al., "Identification of A2-restricted hepatitis C virus-specific cytotoxic T AS 203 lymphocyte epitopes from conserved regions of the viral genome," Int. Immunol. 8:651-659, Oxford University Press (1996) ΑT **EXAMINER** DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to Applicant.

Page 4 of 4

FORM PTO-1449

SECOND SUPPLEMENT

INFORMATION DISCLOSURE STATEM

ATTY. DOCKET NO. 2060.0030006/PAJ/M-M

APPLICATION No. 10/031,345 (U.S. Nat'l Phase of PCT/US00/19774)

Page 1 of 27

APPLICANTS

Sette et al.

§ 371 DATE July 22, 2002

ART UNIT 1644

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	AA100	4,2	235,877	11/25/1980	Fullerton			06/27/1979
	AB100	4,4	187,715	12/11/1984	Nitecki et al.			07/09/1982
	AC100	4,5	599,230	07/08/1986	Milich et al.			03/09/1984
	AD100	4,8	337,028	06/06/1989	Allen			12/24/1986
	AE100	5,0	013,548	05/07/1991	Haynes et al.			01/21/1988
	AF100	5,1	28,319	07/07/1992	Arlinghaus			09/20/1989
(AG100	5,7	736,142	04/07/1998	Sette et al.			09/14/1994
	AH100	5,7	783,567	07/21/1998	Hedley et al.			01/22/1997
	AI100	6,0)37,135	03/14/2000	Kubo et al.			11/29/1993
	AJ100	6,4	113,935	07/02/2002	Sette et al.			01/23/1997
	AK100	6,4	119,931	07/16/2002	Vitiello et al.			02/16/1994
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	AL100	EP	0 378 881	06/09/1993	Europe			Yes No
	AM10	0 EP	0 429 816	06/05/1991	Europe			Yes No
	AN100	EP	0 433 242	06/19/1991	Europe			Yes No
	AO100	w	O 93/03764	03/04/1993	WIPO			Yes No
	AP100	W	O 94/20127	09/15/1994	WIPO			Yes No
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	AR	<u>100</u>		dification of I	pment of High Potency Uni High Affinity DR-Blocking			
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. 407447_1.DOC

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	AA101	6,6	502,510	08/05/2003	Fikes et al.			04/05/2000
	AB101	20	02/0160960	10/31/2002	Sette et al.			04/11/2002
	AC101	20	02/0168374	11/14/2002	Kubo et al.			03/20/1997
	AD10	1 20	03/0143672	07/31/2003	Tangri et al.			04/05/2002
	AE101	20	03/0216342	11/20/2003	Fikes et al.			02/21/2003
	AF101	20	03/0216343	11/20/2003	Fikes et al.			02/21/2003
	AG10	1 20	04/0096445	05/20/2004	Sidney et al.			08/22/2001
	AH10	2004/0157273		08/12/2004	Sidney et al.			01/29/2002
	AI101	20	05/0049197	03/03/2005	Sette et al.			10/07/2004
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	AL10	W	O 95/07707	03/23/1995	5 WIPO			Yes No
	AM10	1 W	O 96/22067	07/25/1996	6 WIPO			Yes No
	AN10	1 W	O 97/41440	11/06/1997	7 WIPO			Yes No
	AO10	1 W	O 97/34617	09/25/1997	7 WIPO			Yes No
	AP101	W	O 01/00225	01/04/2001				Yes No
	1	1	OTHER (Incl	uding Autho	r, Title, Date, Pertinent Pag	es, etc.)		
	AR	101			d methods for the generation in human blood," <i>J. Immu</i>			
	AS	101			, R., "Design of peptide and ent Biology, Ltd. (1997)	d polypept	ide vaccines,"	' Curr. Opin.
	AT	101			M.J., "Induction of Ovalbur," <i>J. Exp. Med. 169</i> :603-61.			
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	AL								Yes No
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	AR	103	B cell epitopes a	and Pan DF	Potent immunogenic short l R T Helper Epitopes (PADR rier Science (March 1997)				
	AS	103		1 and HLA	genous Peptides with DistinctB8," <i>J. Immunol. 152</i> :620-				
	AT	103	Different Comb	inations of	ILA-B14 Peptide Binding S Anchor Residues," <i>J. Biol.</i> nd Molecular Biology (1994)	Chem. 20			
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	AR	104	Donnelly, J.J., e Inc. (April 1997		A Vaccines," Annu. Rev. In	nmunol. 15:61	7-648, Annı	ual Reviews		
	AS	104		dition of f	a-responsiveness to a foot-ar foreign helper T-cell determ					
	AT	104		lations," P	vaccines: Protective immur Proc. Natl. Acad. Sci. USA 9					
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	AR	105		phocyte ep	of epitope flanking residues itopes," Eur. J. Immunol. 29			
	AS	105			y of immunogens: implication CH Verlagsgesellschaft mb		ine design,"	Eur. J.
	АТ	105		lity Comple	Complementary Methods for ex Molecules," <i>J. Mol. Biol.</i>			
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	AR	106		arily by Re	Γ Cell Recognition of an End sidues within the Epitope," Jess (1992)				
	AS	106	Complex-Restri Hemagglutinin	cted Cytoto Site by Cyt	tation of Viral Antigen to Classic T Lymphocyte. Recognicatoxic T Lymphocyte is Indetion Product," <i>J. Exp. Med. I</i>	tion of an In	nmunodomi the Position	nant Influenza of the Site in	
	AT	106		ed on Peptio	e Prediction of Major Histocode Side Chain Scanning," J. 25 ss (1994)				
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	AR	107			tion of Requirements for Pep anol. 152:2890-2898, Americ					
	AS	107	Molecule HLA-	B7 Determ	Characteristics of Endogenous Peptides Eluted from the Class I MHC ermined by Mass Spectrometry and Computer Modeling," <i>J.</i> 87, American Association of Immunologists (1993)					
	АТ	107	generated by pe Including Preve	ptide primi	*Class I MHC-restricted, peptide specific cytotoxic T lymphocytes priming in vivo," in <i>Vaccines90: Modern Approaches to New Vaccine of AIDS</i> , Brown, F., et al., eds., Cold Spring harbor Laboratory Press, NY, pp. 7-11 (1990)					
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	AR	108		y Peptide P	ection of Class I MHC-Res Priming In Vivo," <i>J. Immun</i> sists (1989)				
	AS	108			ptide binding to HLA-DR ns MHC binding," <i>EMBO</i>				
	AT	108	virus-specific cy	ytotoxic T	etion against lethal Sendai lymphocytes with a free synal Academy of Sciences (nthetic peption			
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	AR	<u>109</u>			stinct <i>HLA-A*0101</i> -specific s enetics 45:249-258, Springer			native peptide
	AS	109	Histocompatibil	ity Comple	eptide Binding to Class I Mo ex on the Surface of Living T entific Publications (1992)			Immunol.
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	AS	110	Neutralizing Do	Lasarte, J-J., et al., "Induction of Cytotoxic T Lymphocytes in Mice against the Principal Neutralizing Domain of HIV-1 by Immunization with an Engineered T-Cytotoxic-T-Help Synthetic Helper Peptide Construct," Cell. Immunol. 141:211-218, Academic Press Inc. 1992)							
	AT	110	Madden, D.R., extended confor	et al., "The mation,"	e structure of HLA-B27 revea Nature 353:321-325, Nature F	ils nonamer Publishing G	self-peptides froup (1991)	s bound in an			
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	AR	111			notifs of HLA-A3, -A24, and genetics 40:306-308, Spring			rmined by			
	AS	111		Martinon, F., et al., "Immunization of Mice with Lipopeptides Bypasses the Prerequisite for Adjuvant," J. Immunol. 149:3416-3422, American Association of Immunologists (1992)							
	АТ	111	Niedermann, G., et al., "Contribution of Proteasome-Mediated Proteolysis to the Hierarchy of Epitopes Presented by Major Histocompatibility Complex Class I Molecules," <i>Immunity</i> 2:289-299, Cell Press (1995)								
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	AR	112			The specificity of proteasomens," <i>Immunol. Rev. 172</i> :29-4				
	AS	112			rbone, F.R., "Peptide Present lex Molecules," <i>Immunol. Re</i>			G (1991)	
	AT	112	O'Sullivan, D., o Haplotypes," J.	et al., "Cł Immunol.	naracterization of the Specific . 145:1799-1808, American A	city of Peptid Association o	e Binding to f Immunolog	Four DR gists (1990)	
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	AR	113			the Interaction of Promiscuo 147:2663-2669, American As					
Panina-Bordignon, P., et al., "Universally immunogenic T cell eptiopes: promiscuou binding to human MHC class II and promiscuous recognition by T cells," Eur. J. Imm 19:2237-2242, VCH Verlagsgesellschaft mbH (1989)										
	AT	113	Paz, P., et al., "Discrete Proteolytic Intermediates in the MHC Class I Antigen Processing Pathway and MHC I-Dependent Peptide Trimming in the ER," <i>Immunity 11</i> :241-251, Cell Press (August 1999)							
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	AR	114		atitis B Viru	c T Lymphocytes Recognizes Nucleocapsid Antigen," <i>J.</i> s (1991)						
	AS	114	Human Lympho	ocytes: Effec	nduction and Suppression of Immunoglobulin Synthesis in Cultures of es: Effects of Pokeweed Mitogen and <i>Staphylococcus Aureus</i> Cowan I," 6-661, Williams & Wilkins Co. (1980)						
	AT	114			mal development and functi y in mice lacking CD4," Na						
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	AT	115			gen Processing In Vivo and the 54:4414-4422, American Ass					
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	AS	116	cell repertoire' t	chaeffer, E.B., et al., "Relative contribution of 'determinant selection' and 'holes all repertoire' to T-cell responses," <i>Proc. Natl. Acad. Sci. USA 86</i> :4649-4653, Nacademy of Sciences (1989)							
	AT	116	Schumacher, T. 706, Nature Pub		., "Peptide selection by MHC oup (1991)	C class I mo	lecules," Na	ture 350:703-			
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-	AR	117	Sette, A., and Si	idney, J., "l	HLA supertypes and supermonder. <i>In. Immunol. 10</i> :478-482, Cur	otifs: a func			
	AS	117			Approach to the Generation of:1809-1813, American Asso				
	AT	117		MHC Clas	Conformational Propensity of States (1989)				
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	AR	118	Sette, A., et al., Quantitative Mo	"Peptide B blecular Bin	inding to the Most Frequent ading Assays," Mol. Immuno	: HLA ol. 31:8	A Cla 13-82	ss I Alleles l 2, Pergamor	Measured by 1 Press (1994)	
	AS	118	Peptide-Binding	sidney, J., et al., "Definition of an HLA-A3-Like Supermotif Demonstrates the Overlapping Peptide-Binding Repertoires of Common HLA Molecules," <i>Hum. Immunol.</i> 45:79-93, Elsevier Science Inc. (1996)						
	AT	118			, biochemical and evolution Immunol. Today 17:261-266					
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	AR	119			A-A*0207 Peptide Binding Immunol. 58:12-20, Elsev					
	AS	119			r, J., "Defining rules for the -56, Current Biology Ltd. (е-МН	C class II in	teraction,"	
	AT	119			eral Common HLA-DR Ty amunol. 160:3363-3373, As					
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	AR	120			, "Properties of Purified T Coantigens," <i>J. Exp. Med. 162</i>					
	AS	120	Length and Deg	Stark, J.M., et al., "Immunogenicity of lipid-conjugated antigens. I. The Influence of Chain Length and Degree of Conjugation on Induction of Antibody in Mice," <i>Immunology 39</i> :345-352, Blackwell Scientific Publications (1980)						
	AT	120	Steinman, R.M., "Dendritic cells and immune-based therapies," Exp. Hematol. 24:859-862, Elsevier Science Inc. (1996)							
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	AR	121			es in MHC Class I Self Pept 5:4749-4756, American Asso					
	AS	121	molecules from	the membr	nple method to eliminate the rane of viable cells by acid tr er Science (1987)					
	AT	121	synthetic peptid	e vaccines pes," <i>Proc</i> .	Vaccine engineering: Enhance related to hepatitis in chemic Natl. Acad. Sci. USA 86:90	cally define	d models cor	nsisting of T-		
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	AR	122	Townsend, A., a	and Bodme	r, H., "Antigen Recognition <i>mmunol. 7</i> :601-624, Annual	by Class		
von Boehmer, H., and Haas, W., "Distinct Ir Genes for Helper and Killer Cells in t Cytotoxic Response to H-Y Antigen," <i>J. Exp. Med. 150</i> :1134-1142, Rockefeller U Press (1979)								
	AT	122			etic Peptide Induces Long-Ts 2," <i>J. Exp. Med. 165</i> :459-4			
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	AR	123		d Mononi	In Vitro Induction of Primary, uclear Cells Stimulated with Sence Ltd. (1995)					
	AS	123	Epitope Express	sion: Resp	e Induction of Virus-Specific CTL as a Function of Increasing sponses Rise Steadily Until Excessively High Levels of Epitope Are 163:3735-3745, American Association of Immunologists (October					
	АТ	123	Widmann, C., et al., "T helper epitopes enhance the cytotoxic response of mice immunized with MHC class I-restricted malaria peptides," J. Immunol. Meth. 155:95-99, Elsevier Science Publishers B.V. (1992)							
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	AR	124	Induces Antiboo	dies Agains	Lipopeptide-Helper-T-Cest the CTL Epitope," <i>Inno</i> 2. 2nd, pp. 499-502 (1991)					
	AS	124		ontaining a	Novel low-molecular-weight potent B cell and macrop					
	AT	124		ed T Lymp	nk, J.R., "Immunodominan hocyte Responses," <i>Annu</i> .					
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	AR 125				rimary induction of virus-sp Immunol. Methods 153:193					
	AS	12	Zinkernagel, R.M., et al., "The Lymphoreticular System in Triggering Virus Plus Self Specific Cytotoxic T Cells: Evidence for T Help," J. Exp. Med. 147:897-911, Rockefe University Press (1978)							
	AT	12	Altuvia, Y. et al., "A Structure-Based Algorithm to Predict Potential Binding Peptides of MHC Molecules with Hydrophobic Binding Pockets," <i>Human Immunol.</i> 58:1-11, Elsev Science Inc. (1997)							
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